

U.S. Patent Application Serial No. **10/589,439**  
Amendment filed December 8, 2009  
Reply to OA dated September 30, 2009

**AMENDMENTS TO THE CLAIMS:**

Please cancel claims 10-16 without prejudice or disclaimer. This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Original): An organic-inorganic hybrid nanofiber characterized by comprising a crystalline polymer filament made of a polymer having a straight-chain polyethyleneimine skeleton, and a silica covering said crystalline polymer filament.

Claim 2 (Original): The organic-inorganic hybrid nanofiber according to Claim 1, wherein said polymer having the straight-chain polyethyleneimine skeleton is in the form of a line, a star, or a comb.

Claim 3 (Original): The organic-inorganic hybrid nanofiber according to Claim 1, wherein said polymer having the straight-chain polyethyleneimine skeleton is composed of a block copolymer between a straight-chain polyethyleneimine block and other blocks.

Claim 4 (Original): The organic-inorganic hybrid nanofiber according to Claim 1, wherein a proportion of the polyethyleneimine skeleton in said polymer having the straight-chain polyethyleneimine skeleton is not less than 25% by mol.

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Claim 5 (Original): The organic-inorganic hybrid nanofiber according to Claim 1, wherein an amount of the silica included is in a range of from 30 to 90% by weight.

Claim 6 (Original): The organic-inorganic hybrid nanofiber according to Claim 1, wherein a diameter thereof is in a range of from 10 to 1,000 nm.

Claim 7 (Original): The organic-inorganic hybrid nanofiber according to Claim 1, wherein a diameter of said crystalline polymer filament is in a range of from 1 to 100 nm.

Claim 8 (Original): An organic-inorganic hybrid structure characterized in that the hybrid structure is formed by mutually aggregating the organic-inorganic hybrid nanofibers according to any one of Claims 1 to 7 by means of aggregation of the crystalline polymer filaments themselves in said organic-inorganic hybrid nanofiber.

Claim 9 (Original): The organic-inorganic hybrid structure according to Claim 8, wherein said crystalline polymer filaments themselves are crosslinked by means of a crosslinker.

Claims 10-16 (Canceled).